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1. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics ActivityDepartment of Defense

2. NA: Program Description

Release Date: 12-30-2014Open Date: 12-30-2014Due Date: 02-26-2015Close Date: 02-26-2015

The U.S. Department of Agriculture (USDA) invites previous USDA Small Business Innovation Research (SBIR) Phase I awardees to apply for Phase II funding under this program solicitation. Phase II awards are only provided to those Phase I awardees that meet the eligibility requirements of a Phase II project. To be eligible for a Phase II award, an applicant must have been funded by the USDA SBIR pro ...

SBIR Department of Agriculture

3. DMEA13B-001: Electrochemical Micro-Capacitors Utilizing Carbon Nanostructures

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

TECHNOLOGY AREAS: Materials/Processes, Electronics The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordan ...

STTR Department of DefenseDefense Microelectronics Activity

4. DMEA132-001: Miniaturized RF over Fiber

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Design and prototype a capability to use fiber optic cable to simultaneously distribute power (i.e power over fiber) while providing full duplex information flow. The capability will allow miniature microwave system components to be distributed over a relatively long distance (i.e. 30 meters or more) via fiber optics. For example, a processing node (within a microwave system) provid ...

SBIR Defense Microelectronics Activity

5. DMEA132-002: High Resolution Three-Dimensional Digital Reconstruction of Integrated Circuits

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop a system for the accurate identification and analysis of semiconductor materials with integrated, high-resolution imaging capability for the three-dimensional digital reconstruction of integrated circuits (ICs). DESCRIPTION: As semiconductor geometries continue to diminish, so too does the applicability of traditional sample preparation tools. As the thickness of metal l ...

SBIR Defense Microelectronics Activity

6. DMEA122-001: High Speed, High Resolution X-ray System for Inspecting Integrated Circuits

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an affordable x-ray microscope system for use in performing integrated circuit (IC) reverse engineering. DESCRIPTION: X-ray microscopy using a synchrotron as the x-ray source has been demonstrated to be an extremely valuable tool in the performance of high throughput integrated circuit evaluation and reverse engineering efforts. However, synchrotron x-ray sources are prohi ...

SBIR Defense Microelectronics Activity

7. 8.1: Forests and Related Resources.

Release Date: 07-13-2011Open Date: 07-13-2011Due Date: 09-01-2011Close Date: 09-01-2011

The Forests and Related Resources topic area aims to address the health, diversity and productivity of the Nation’s forests and grasslands to meet the needs of present and future generations through the development of environmentally sound approaches to increase productivity of forest lands and develop value-added materials derived from woody resources. New technologies are needed to enhance the protection of the Nation’s forested lands and forest resources and help to ensure the continued existence of healthy and productive forest ecosystems. Proposals focused on sustainable bi

SBIR Department of Agriculture

8. 8.2: Plant Production and Protection- Biology

Release Date: 07-13-2011Open Date: 07-13-2011Due Date: 09-01-2011Close Date: 09-01-2011

The objective of this topic area is to examine means of enhancing crop production by applying biological approaches to reduce the impact of harmful agents, develop new methods for plant improvement, and apply traditional plant breeding methods and new technologies to develop new food and non-food crop plants, as well as new genotypes of existing crop plants with characteristics that allow their use in new commercial applications. This topic area supports the following NIFA Societal Challenge Areas: Global Food Security

and Hunger; Climate Change; Sustainable bioenergy; and Food Safety.

SBIR Department of Agriculture

9. 8.3: Animal Production and Protection

Release Date: 07-13-2011Open Date: 07-13-2011Due Date: 09-01-2011Close Date: 09-01-2011

The Food and Agriculture Organization (FAO) of the United Nations predicts that feeding the world's growing population will require a doubling of global food production by 2050. Fulfilling this need will require new technologies to improve both productivity and efficiency of food animals. The Animal Production and Protection topic area aims to develop innovative, marketable technologies that will provide significant benefit to the production and protection of agricultural animals.

SBIR Department of Agriculture

10. 8.4: Air, Water and Soils

Release Date: 07-13-2011Open Date: 07-13-2011Due Date: 09-01-2011Close Date: 09-01-2011

The Air, Water and Soils topic area aims to develop technologies for conserving and protecting air, water and soil resources while sustaining optimal farm and forest productivity.

SBIR Department of Agriculture

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